IFWO

RAW SEQUENCE LISTING DATE: 08/30/2004
PATENT APPLICATION: **US/10/828,920A** TIME: 14:53:30

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12 <141> CURRENT FILING DATE: 2004-04-20
14 <150> PRIOR APPLICATION NUMBER: 09/388,221
15 <151> PRIOR FILING DATE: 1999-09-01
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19 <170> SOFTWARE: PatentIn Ver. 2.0
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50 aag aag gag gag ctg aag gag ttc cag ctt ctg ctc gcc aat aaa gcg     96
52 Lys Lys Glu Glu Leu Lys Glu Phe Gln Leu Leu Leu Ala Asn Lys Ala
54              20                  25                  30
58 cac tcc agg agc tct tcg ggt gag aca ccc gct cag cca gag aag acg    144
60 His Ser Arg Ser Ser Ser Gly Glu Thr Pro Ala Gln Pro Glu Lys Thr
62          35                  40                  45
66 agt ggc atg gag gtg gcc tcg tac ctg gtg gct cag tat ggg gag cag    192
68 Ser Gly Met Glu Val Ala Ser Tyr Leu Val Ala Gln Tyr Gly Glu Gln
70      50                  55                  60
74 cgg gcc tgg gac cta gcc ctc cat acc tgg gag cag atg ggg ctg agg    240
76 Arg Ala Trp Asp Leu Ala Leu His Thr Trp Glu Gln Met Gly Leu Arg
78  65                  70                  75                  80
82 tca ctg tgc gcc caa gcc cag gaa ggg gca ggc cac tct ccc tca ttc    288
84 Ser Leu Cys Ala Gln Ala Gln Glu Gly Ala Gly His Ser Pro Ser Phe
86                  85                  90                  95
90 ccc tac agc cca agt gaa ccc cac ctg ggg tct ccc agc caa ccc acc    336
92 Pro Tyr Ser Pro Ser Glu Pro His Leu Gly Ser Pro Ser Gln Pro Thr
94              100                 105                 110
98 tcc acc gca gtg cta atg ccc tgg atc cat gaa ttg ccg gcg ggg tgc    384
100 Ser Thr Ala Val Leu Met Pro Trp Ile His Glu Leu Pro Ala Gly Cys
102          115                 120                 125
106 acc cag ggc tca gag aga agg gtt ttg aga cag ctg cct gac aca tct    432
108 Thr Gln Gly Ser Glu Arg Arg Val Leu Arg Gln Leu Pro Asp Thr Ser
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122 cca agc tcc cca gac cat gag tct cca agc cag gag tca ccc aac gcc    528
124 Pro Ser Ser Pro Asp His Glu Ser Pro Ser Gln Glu Ser Pro Asn Ala
126                  165                170                175
130 ccc aca tcc aca gca gtg ctg ggg agc tgg gga tcc cca cct cag ccc    576
132 Pro Thr Ser Thr Ala Val Leu Gly Ser Trp Gly Ser Pro Pro Gln Pro
134                  180                185                190
138 agc cta gca ccc aga gag cag gag gct cct ggg acc caa tgg cct ctg    624
140 Ser Leu Ala Pro Arg Glu Gln Glu Ala Pro Gly Thr Gln Trp Pro Leu
142         195                200                205
146 gat gaa acg tca gga att tac tac aca gaa atc aga gaa aga gag aga    672
148 Asp Glu Thr Ser Gly Ile Tyr Tyr Thr Glu Ile Arg Glu Arg Glu Arg
150      210                215                220
154 gag aaa tca gag aaa ggc agg ccc cca tgg gca gcg gtg gta gga acg    720
156 Glu Lys Ser Glu Lys Gly Arg Pro Pro Trp Ala Ala Val Val Gly Thr
158 225                  230                235                240
162 ccc cca cag gcg cac acc agc cta cag ccc cac cac cac cca tgg gag    768
164 Pro Pro Gln Ala His Thr Ser Leu Gln Pro His His His Pro Trp Glu
166                  245                250                255
170 cct tct gtg aga gag agc ctc tgt tcc aca tgg ccc tgg aaa aat gag    816
172 Pro Ser Val Arg Glu Ser Leu Cys Ser Thr Trp Pro Trp Lys Asn Glu
174                  260                265                270
178 gat ttt aac caa aaa ttc aca cag ctg cta ctt cta caa aga cct cac    864
180 Asp Phe Asn Gln Lys Phe Thr Gln Leu Leu Leu Leu Gln Arg Pro His
182         275                280                285
186 ccc aga agc caa gat ccc ctg gtc aag aga agc tgg cct gat tat gtg    912
188 Pro Arg Ser Gln Asp Pro Leu Val Lys Arg Ser Trp Pro Asp Tyr Val
190      290                295                300
194 gag gag aat cga gga cat tta att gag atc aga gac tta ttt ggc cca    960
196 Glu Glu Asn Arg Gly His Leu Ile Glu Ile Arg Asp Leu Phe Gly Pro
198 305                  310                315                320
202 ggc ctg gat acc caa gaa cct cgc ata gtc ata ctg cag ggg gct gct   1008
204 Gly Leu Asp Thr Gln Glu Pro Arg Ile Val Ile Leu Gln Gly Ala Ala
206                  325                330                335
210 gga att ggg aag tca aca ctg gcc agg cag gtg aag gaa gcc tgg ggg   1056
212 Gly Ile Gly Lys Ser Thr Leu Ala Arg Gln Val Lys Glu Ala Trp Gly
214         340                345                350
218 aga ggc cag ctg tat ggg gac cgc ttc cag cat gtc ttc tac ttc agc   1104
220 Arg Gly Gln Leu Tyr Gly Asp Arg Phe Gln His Val Phe Tyr Phe Ser
222         355                360                365
226 tgc aga gag ctg gcc cag tcc aag gtg gtg agt ctc gct gag ctc atc   1152
228 Cys Arg Glu Leu Ala Gln Ser Lys Val Val Ser Leu Ala Glu Leu Ile
230      370                375                380
234 gga aaa gat ggg aca gcc act ccg gct ccc att aga cag atc ctg tct   1200
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244 Arg Pro Glu Arg Leu Leu Phe Ile Leu Asp Gly Val Asp Glu Pro Gly
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250 tgg gtc ttg cag gag ccg agt tct gag ctc tgt ctg cac tgg agc cag    1296
252 Trp Val Leu Gln Glu Pro Ser Ser Glu Leu Cys Leu His Trp Ser Gln
254             420                 425                 430
258 cca cag ccg gcg gat gca ctg ctg ggc agt ttg ctg ggg aaa act ata    1344
260 Pro Gln Pro Ala Asp Ala Leu Leu Gly Ser Leu Leu Gly Lys Thr Ile
262             435                 440                 445
266 ctt ccc gag gca tcc ttc ctg atc acg gct cgg acc aca gct ctg cag    1392
268 Leu Pro Glu Ala Ser Phe Leu Ile Thr Ala Arg Thr Thr Ala Leu Gln
270     450                 455                 460
274 aac ctc att cct tct ttg gag cag gca cgt tgg gta gag gtc ctg ggg    1440
276 Asn Leu Ile Pro Ser Leu Glu Gln Ala Arg Trp Val Glu Val Leu Gly
278 465                 470                 475                 480
282 ttc tct gag tcc agc agg aag gaa tat ttc tac aga tat ttc aca gat    1488
284 Phe Ser Glu Ser Ser Arg Lys Glu Tyr Phe Tyr Arg Tyr Phe Thr Asp
286             485                 490                 495
290 gaa agg caa gca att aga gcc ttt agg ttg gtc aaa tca aac aaa gag    1536
292 Glu Arg Gln Ala Ile Arg Ala Phe Arg Leu Val Lys Ser Asn Lys Glu
294             500                 505                 510
298 ctc tgg gcc ctg tgt ctt gtg ccc tgg gtg tcc tgg ctg gcc tgc act    1584
300 Leu Trp Ala Leu Cys Leu Val Pro Trp Val Ser Trp Leu Ala Cys Thr
302             515                 520                 525
306 tgc ctg atg cag cag atg aag cgg aag gaa aaa ctc aca ctg act tcc    1632
308 Cys Leu Met Gln Gln Met Lys Arg Lys Glu Lys Leu Thr Leu Thr Ser
310     530                 535                 540
314 aag acc acc aca acc ctc tgt cta cat tac ctt gcc cag gct ctc caa    1680
316 Lys Thr Thr Thr Thr Leu Cys Leu His Tyr Leu Ala Gln Ala Leu Gln
318 545                 550                 555                 560
322 gct cag cca ttg gga ccc cag ctc aga gac ctc tgc tct ctg gct gct    1728
324 Ala Gln Pro Leu Gly Pro Gln Leu Arg Asp Leu Cys Ser Leu Ala Ala
326             565                 570                 575
330 gag ggc atc tgg caa aaa aag acc ctt ttc agt cca gat gac ctc agg    1776
332 Glu Gly Ile Trp Gln Lys Lys Thr Leu Phe Ser Pro Asp Asp Leu Arg
334             580                 585                 590
338 aag cat ggg tta gat ggg gcc atc atc tcc acc ttc ttg aag atg ggt    1824
340 Lys His Gly Leu Asp Gly Ala Ile Ile Ser Thr Phe Leu Lys Met Gly
342             595                 600                 605
346 att ctt caa gag cac ccc atc cct ctg agc tac agc ttc att cac ctc    1872
348 Ile Leu Gln Glu His Pro Ile Pro Leu Ser Tyr Ser Phe Ile His Leu
350     610                 615                 620
354 tgt ttc caa gag ttc ttt gca gca atg tcc tat gtc ttg gag gat gag    1920
356 Cys Phe Gln Glu Phe Phe Ala Ala Met Ser Tyr Val Leu Glu Asp Glu
358 625                 630                 635                 640
362 aag ggg aga ggt aaa cat tct aat tgc atc ata gat ttg gaa aag acg    1968
364 Lys Gly Arg Gly Lys His Ser Asn Cys Ile Ile Asp Leu Glu Lys Thr
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370 cta gaa gca tat gga ata cat ggc ctg ttt ggg gca tca acc aca cgt    2016
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372 Leu Glu Ala Tyr Gly Ile His Gly Leu Phe Gly Ala Ser Thr Thr Arg
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380 Phe Leu Leu Gly Leu Leu Ser Asp Glu Gly Glu Arg Glu Met Glu Asn
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386 atc ttt cac tgc cgg ctg tct cag ggg agg aac ctg atg cag tgg gtc   2112
388 Ile Phe His Cys Arg Leu Ser Gln Gly Arg Asn Leu Met Gln Trp Val
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396 Pro Ser Leu Gln Leu Leu Leu Gln Pro His Ser Leu Glu Ser Leu His
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436 Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln Ile Leu
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452 Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys Thr Leu
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458 aga cgc cct cgc tgc ctc ctg gag acc ctg cgg ttg gct ggc tgt ggc   2544
460 Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly Cys Gly
462             835             840             845
466 ctc aca gct gag gac tgc aag gac ctt gcc ttt ggg ctg aga gcc aac   2592
468 Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg Ala Asn
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474 cag acc ctg acc gag ctg gac ctg agc ttc aat gtg ctc acg gat gct   2640
476 Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr Asp Ala
478 865             870             875             880
482 gga gcc aaa cac ctt tgc cag aga ctg aga cag ccg agc tgc aag cta   2688
484 Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys Lys Leu
486             885             890             895
490 cag cga ctg cag ctg gtc agc tgt ggc ctc acg tct gac tgc tgc cag   2736
492 Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys Cys Gln
494          900             905             910
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500 Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu Leu Asp
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518 945                  950                  955                  960
522 aca act ctg agt gat gag atg agg cag gaa ctg agg gcc ctg gag cag    2928
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548 Ser Leu Lys Arg Gln Arg Leu Gly Ser Glu Arg Ala Ala Ser His Val
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554 gct cag gct aat ctc aaa ctc ctg gac gtg agc aag atc ttc cca att    3120
556 Ala Gln Ala Asn Leu Lys Leu Leu Asp Val Ser Lys Ile Phe Pro Ile
558 1025                 1030                 1035                 1040
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588 Glu Val Val Asp Lys Glu Lys Asn Leu Tyr Arg Val His Phe Pro Val
590      1090                 1095                 1100
594 gct ggc tcc tac cgc tgg ccc aac acg ggt ctc tgc ttt gtg atg aga    3360
596 Ala Gly Ser Tyr Arg Trp Pro Asn Thr Gly Leu Cys Phe Val Met Arg
598 1105                 1110                 1115                 1120
602 gaa gcg gtg acc gtt gag att gaa ttc tgt gtg tgg gac cag ttc ctg    3408
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618 gac atc aag gct gag cct gga gct gtg gaa gct gtg cac ctc cct cac    3504
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/30/2004
PATENT APPLICATION: **US/10/828,920A**   TIME: 14:53:31

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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/30/2004
PATENT APPLICATION: **US/10/828,920A**   TIME: 14:53:31

Input Set : **A:\66821-281**
Output Set: **N:\CRF4\08302004\J828920A.raw**

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PATENT APPLICATION: **US/10/828,920A**   TIME: 14:53:31

Input Set : **A:\66821-281**
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VERIFICATION SUMMARY   DATE: 08/30/2004
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Input Set : **A:\66821-281**
Output Set: **N:\CRF4\08302004\J828920A.raw**